

Title (en)

Ferrite, and transformer and method for driving it

Title (de)

Ferrit,und Tranformator und ihr Betriebsverfahren

Title (fr)

Férrite, et transformateur et sa méthode de fonctionnement

Publication

**EP 0931779 A1 19990728 (EN)**

Application

**EP 99300335 A 19990119**

Priority

JP 2654598 A 19980123

Abstract (en)

Provided are an Mn-Zn ferrite in which the core loss is low and Bs is high at high temperatures; a transformer capable of being small-sized and suitable to use at high temperatures; and a method for efficiently driving the transformer. Also provided is a transformer capable of being small-sized and suitable to use in a broad temperature range including high temperatures. Further provided are a high-efficiency transformer capable of being small-sized, in which the core loss in the ferrite core is low and the saturation magnetic flux density is high therein at the temperature at which the transformer is driven; and a high-efficiency driving method for the transformer. Depending on its use, Mn-Zn ferrite to be the ferrite core for the transformers comprises, as the essential components, specific amounts of Fe<sub>2</sub>O<sub>3</sub>, ZnO and MnO, and, as the side components, specific amounts of SiO<sub>2</sub>, CaCO<sub>3</sub>, Nb<sub>2</sub>O<sub>5</sub> and ZrO<sub>2</sub>. The core of the transformers is made of the Mn-Zn ferrite.

IPC 1-7

**C04B 35/26**; **H01F 1/34**; **H01F 27/255**

IPC 8 full level

**C01G 49/00** (2006.01); **C04B 35/26** (2006.01); **C04B 35/38** (2006.01); **H01F 1/34** (2006.01); **H01F 27/255** (2006.01)

CPC (source: EP US)

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Citation (search report)

- [X] EP 0707323 A1 19960417 - TDK CORP [JP]
- [DA] PATENT ABSTRACTS OF JAPAN vol. 096, no. 003 29 March 1996 (1996-03-29)

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